

Fig.1

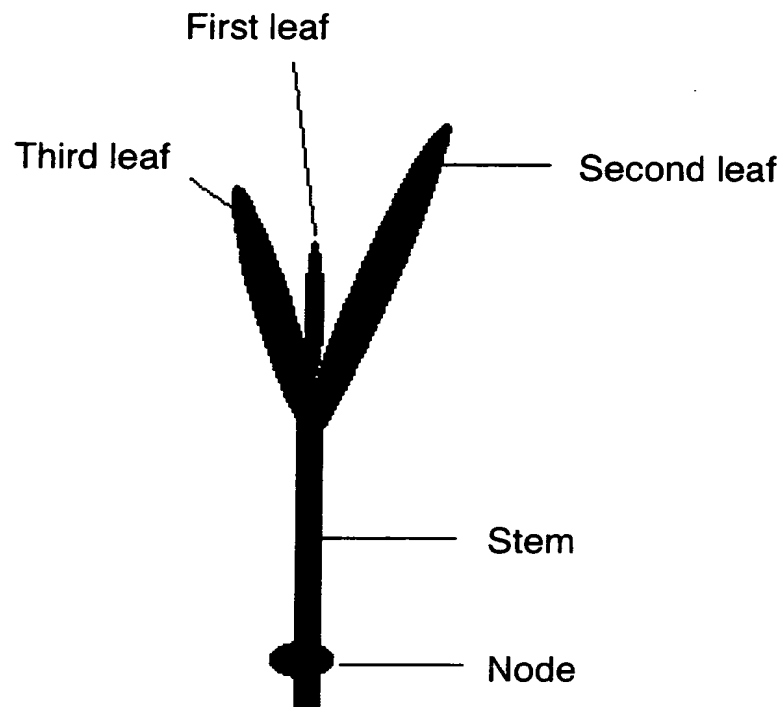


Fig.2

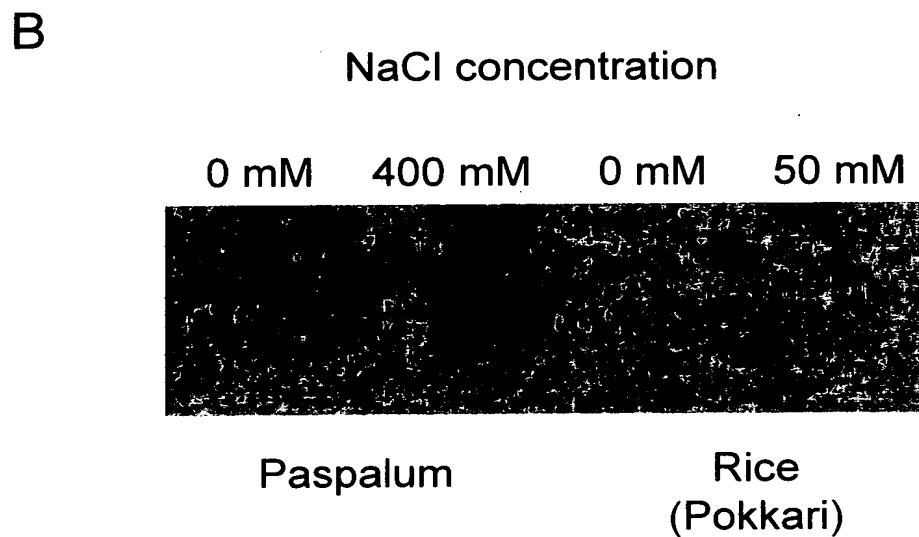
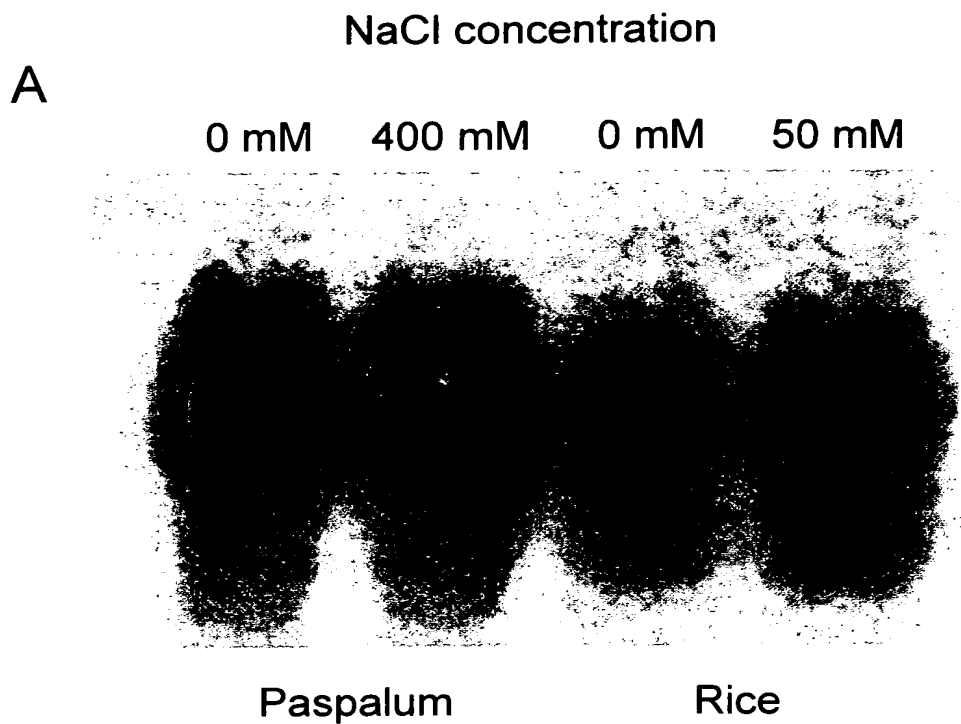


Fig.3

[GENETYX-MAC: phylogenetic tree]

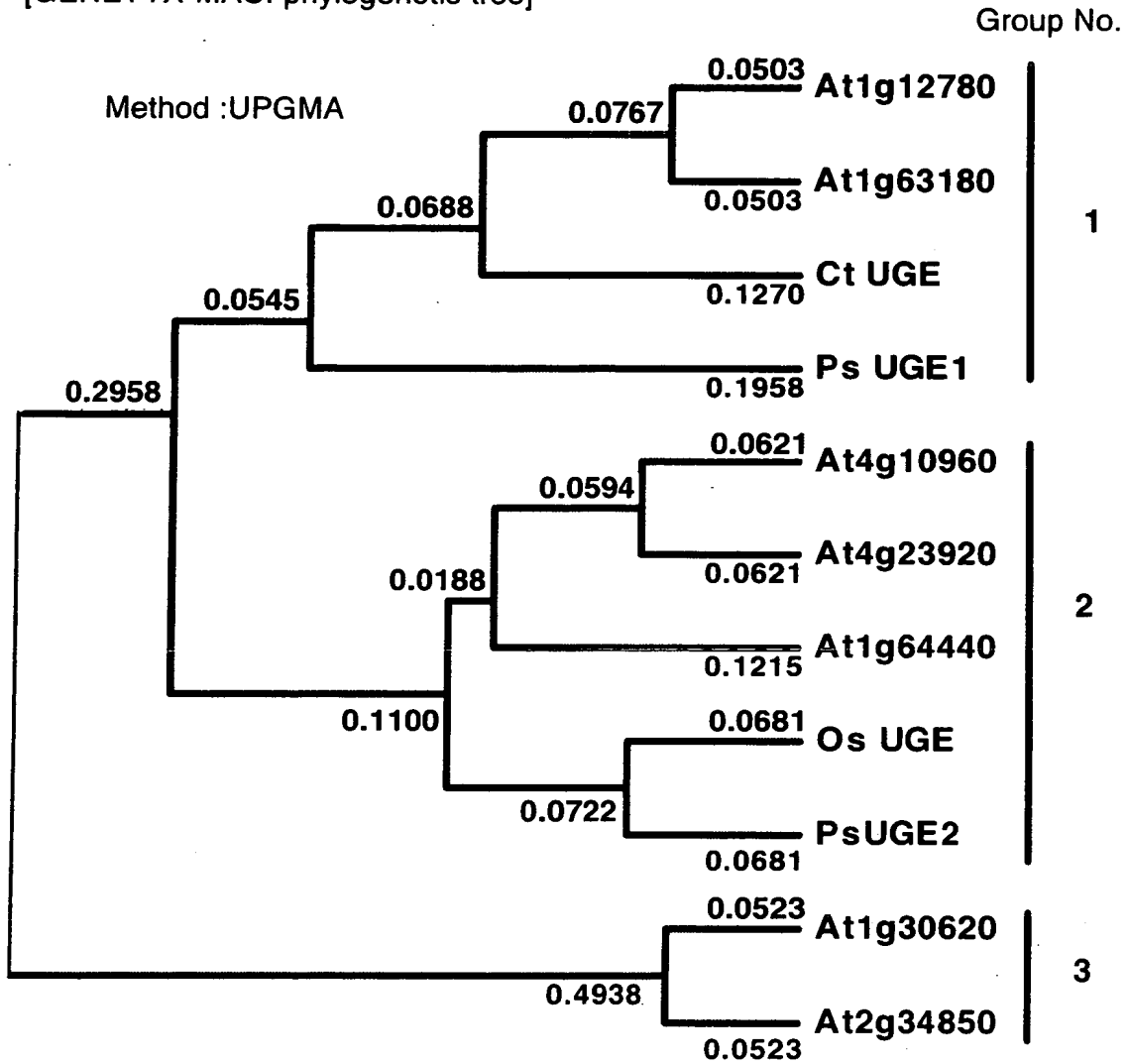


Fig.4

[GENETYX-MAC: Multiple Alignment]

Date : 2003.03.16

Pt UGE1	1	M A I G G A E R G G G A R A G R - S V L T G G A G F I G T H T A L R L E D Q Y G M T V V D N F H N S V P A L E	59
Pt UGE2	1	-----M V S A V L R T I L - V T G G A G V I G S H T V L L L Q D G F A W V V V D N L O N A S D V P L A	48
At1g12780	1	-----I G S S V E Q N I L V T G G A G F I G T H T V V Q L L K D G F K V S I I D N F D N S V I E A V D	48
At1g63180	1	-----I G S S V E Q N I L V T G G A G F I G T H T V V Q L L K D G F K V T I I D N L O N S V M E A V H	48
Ct UGE	1	-----M V S - S R I A B G E T -- L V T G G A G F I G S H T V V Q L L K D G F H V S I I D N L Y N S V I D A V H	51
Pt UGE1	60	R V R - I A D P A L S - A R - D F I A R D L R S A G D L E K A F A A R A V D A V H F A G L K A V G E S V A R P D M	116
Pt UGE2	49	R V A Q L A R S - S N G G A A N - V F H K V D L A R A H A L E D I F S S H R F E A V I H F A G L K A V G E S V O K P L L	107
At1g12780	49	R V R - E L V G P D L S - K K - D - N L G D L R N K D I E K L F S K Q R F D A V I H F A G L K A V G E S V E N P A R	105
At1g63180	49	R V R - E L V G P D L S - T K - E F N L G D L R N K D I E K L F S N Q R F D A V I H F A G L K A V G E S V G N P A R	105
Ct UGE	52	R V R - L V G P L S - S N - H F H H G D L R N I H D L T L F S K T K F D A V I H F A G L K G V G E S V L N P S N	108
Pt UGE1	117	V Y E N N L A G T I N L Y K A M N E H G C K K M V F S S S A T V Y G Q P E V I P C V E D S K Q A M N P V G R T K L I I	176
Pt UGE2	108	V Y D N N L I G T I T L E V M A R H G C K K V F S S S A T V Y G Q P E V I P C E E F P C A T N P V G R T K L V I	167
At1g12780	106	V D N N L V G T I N L Y E T M A K Y N C K M V F S S S A T V Y G Q P E I P C M E D F E K A M N P V G R T K L F I	165
At1g63180	106	V D N N L V G T I N L Y E T M A K Y N C K M V F S S S A T V Y G Q P E I P C V E D F E Q A M N P V G R T K L F I	165
Ct UGE	109	V Y D N N L V A T I N L F Q V Y S K N C K K V I E S S A T V Y G Q P D Q I P C V E D S N H A M N P V G R S K L F V	168
Pt UGE1	177	E E L A R D V Q R A P G A S I M L R Y F N P I G A H S S G E I G E D P K G I P N N L M P Y I Q Q V A V G R L P E L N	236
Pt UGE2	168	E D I C R O V H S D P D K I I L L R Y F N P V G A H S G H I G E D P S T P N N L M P Y V Q Q V A V G R A P H I T	227
At1g12780	166	E E I A R D I Q R A P E L R I I L L R Y F N P V G A H S G S I G E D P K G I P N N L M P Y I Q Q V A V G R L P E L N	225
At1g63180	166	E E I A R D I H A R A P E L K I I L L R Y F N P V G A H S G R I G E D P K G I P N N L M P Y I Q Q V A V G R L P E L N	225
Ct UGE	169	E E V A R D I Q R A P E L R I I L L R Y F N P V G A H S G O I G E D P R I P N N L M P Y I Q Q V A V A L P E L N	228
Pt UGE1	237	V Y G H D Y P T D G T A I R D Y I H V M L A D G H I A A L N K L F D T P D F - G C A Y N L G T G R G T S V L E M V	295
Pt UGE2	228	V Y G T D Y N I K D G T G V R D Y I H V M L A D G H I A A L G K L Y E D S D R I G C E V Y N L G T G R G T S V L E M V	287
At1g12780	226	V Y G H D Y P T D G S A V R D Y I H V M L A D G H I A A L K L F A D P K I I G C T A Y N L G T G R G T S V L E M V	284
At1g63180	226	V F G H D Y P T D G S A V R D Y I H V M L A D G H V A A L N K L F A S D S K I I G C T A Y N L G T G R G T S V L E M V	284
Ct UGE	229	I Y G H D Y P T D G T A I R D Y I H V M L A D G H I A A L K L F T T O N I I G C T A Y N L G T G R G T S V L E M V	287
Pt UGE1	296	A A F K A S G K E I P T I C P R A P G D A T E V Y A S T E K A E L G W K A K Y G I E E M C R D Q N W A K N P	355
Pt UGE2	288	A F E K V S G K K I P L V A G R A P G D A E I V Y A T A K A E K E L K A K A K Y G I E E M C R D Q N W A S K N P	347
At1g12780	285	A F E K A S G K K I P T K L C P R A S D A T A V Y A S T E K A E K E L G W K A K Y G V D E M C R D Q N W A N N P	344
At1g63180	285	S S F E K A S G K K I P I K L C P R A S D A T A V Y A S T K A E K E L G W K A K Y G V D E M C R D Q N W A N N P	344
Ct UGE	288	A F E K A S G K K I P I K L C P R A P G D A T A V Y A S T E K A E K E L G W K A K Y G V E E M C R D Q L K A S N N P	347
Pt UGE1	356	V Y V C A T R E K --	364
Pt UGE2	348	V Y V A G S P D N S S	358
At1g12780	345	V G V N K L ----	351
At1g63180	345	V G E K K P ----	351
Ct UGE	348	V G V G K H ----	354

Fig.5

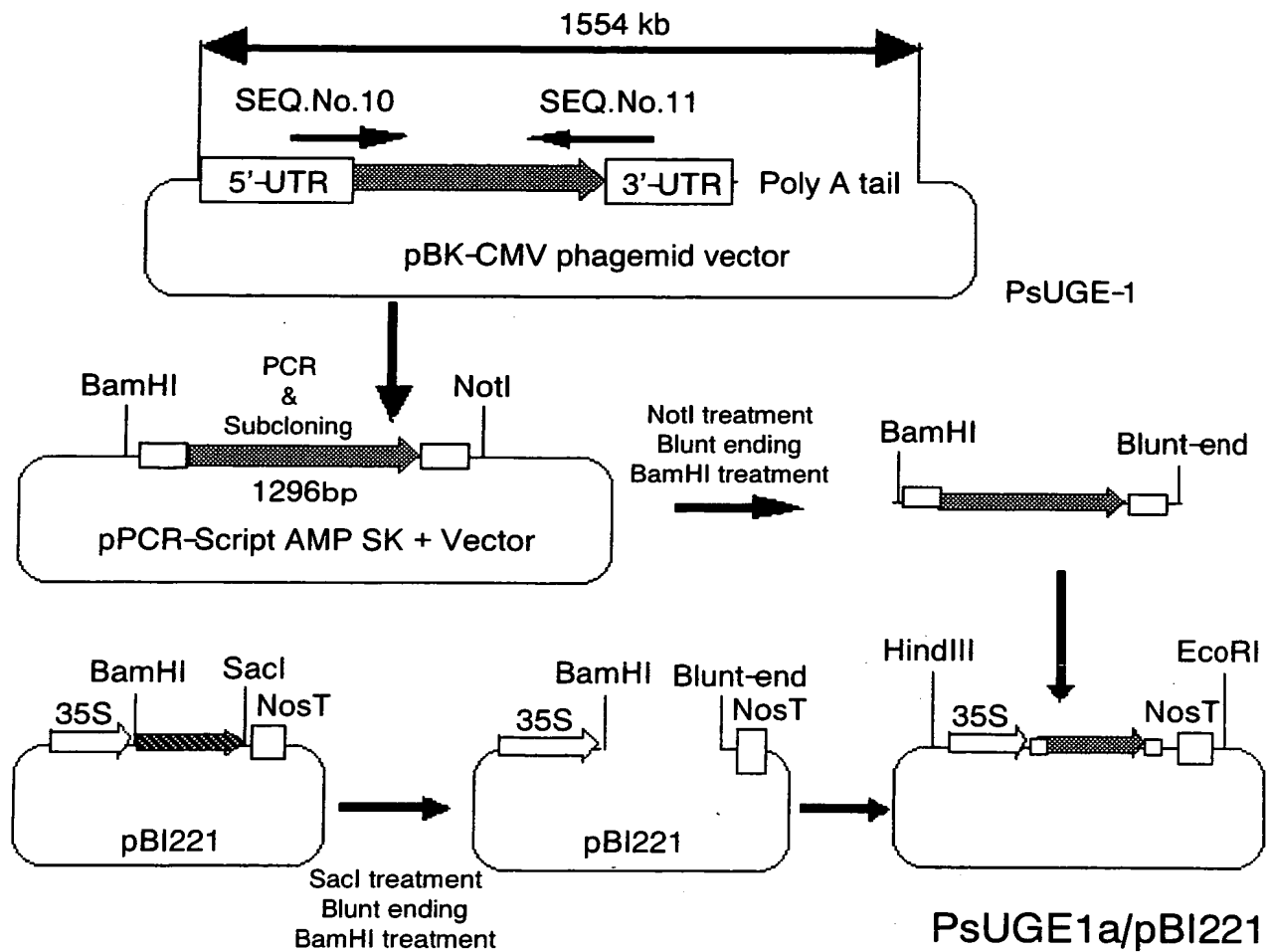


Fig.6

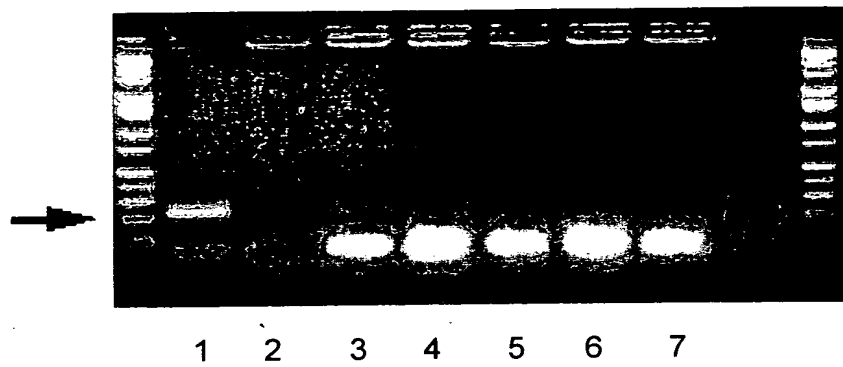
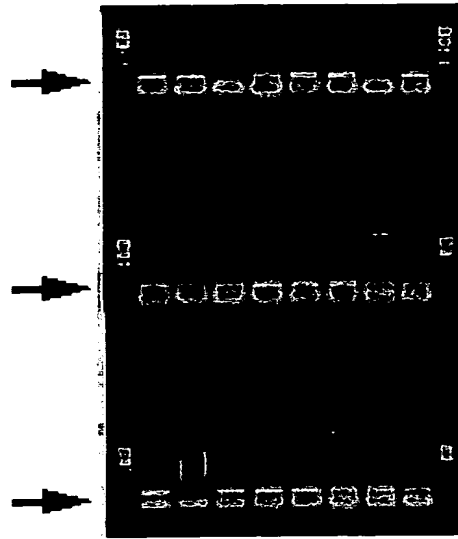
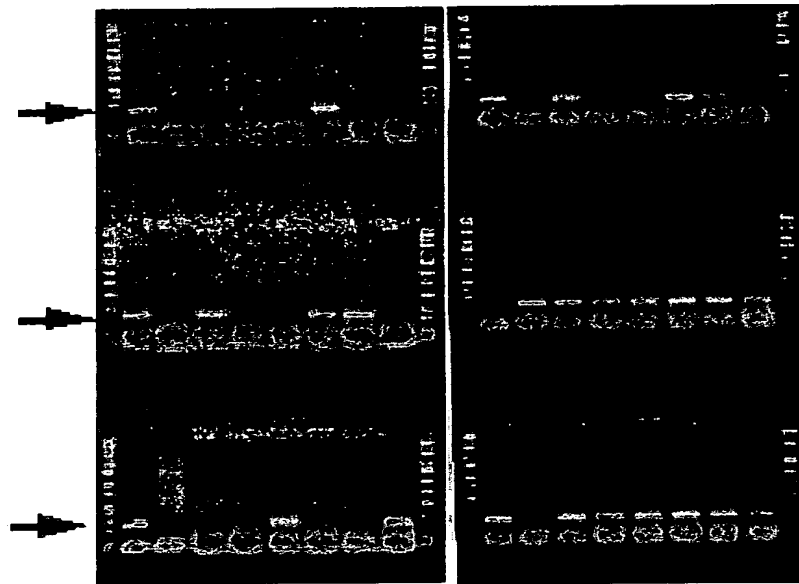


Fig.7



VNT



VNT

Fig.8

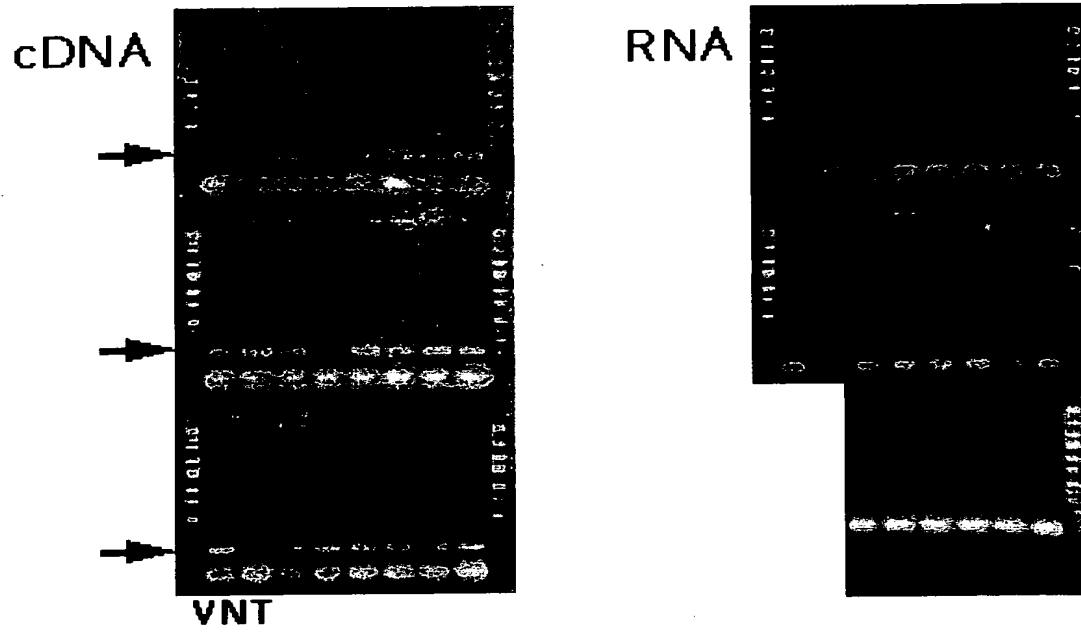


Fig.9



Fig.10

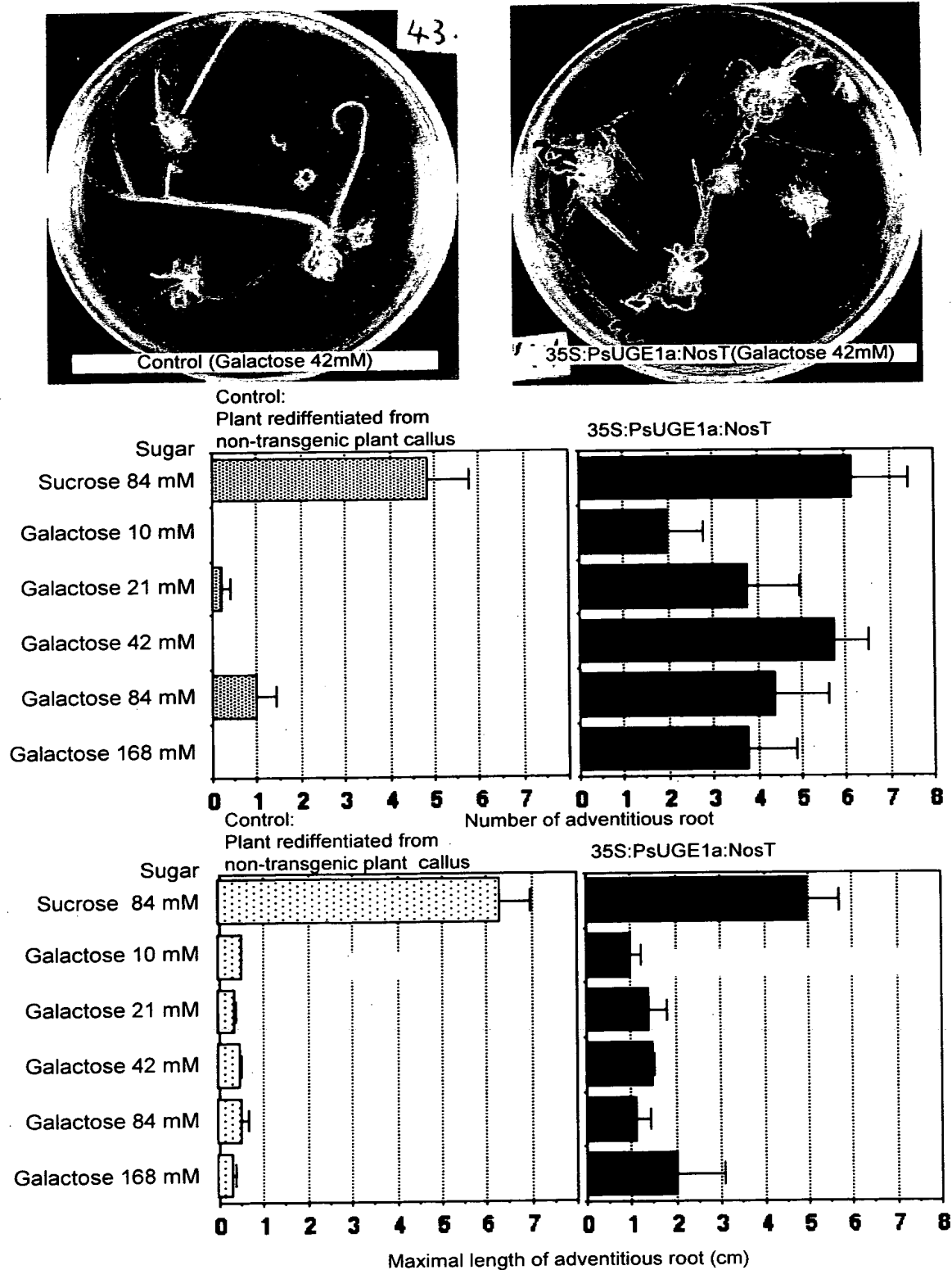


Fig.11

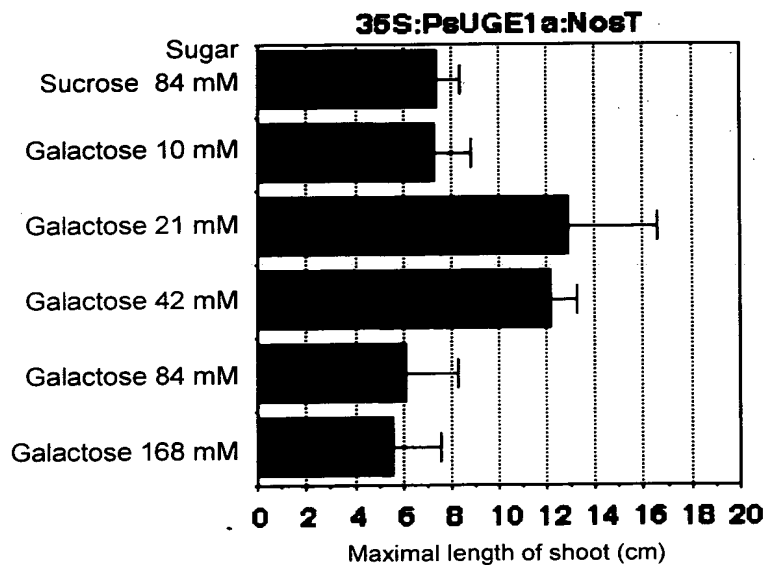
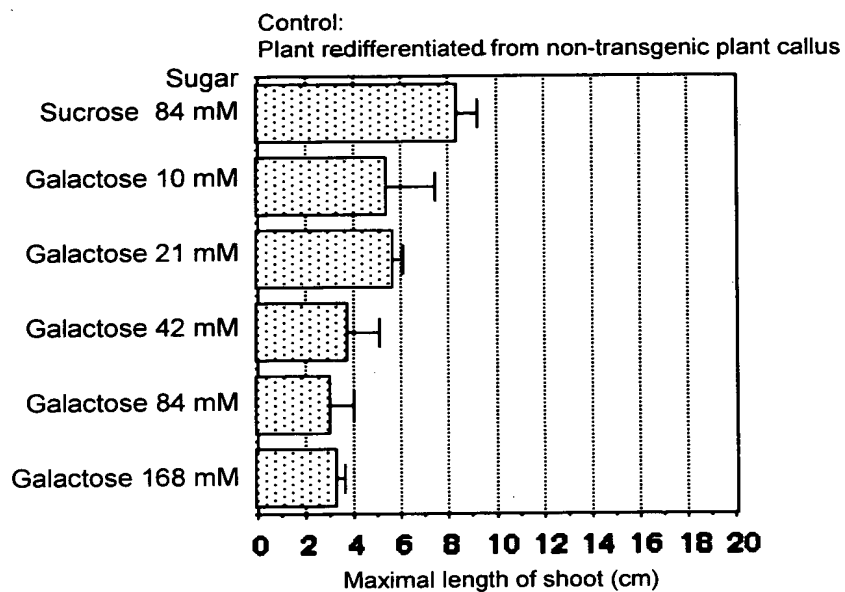
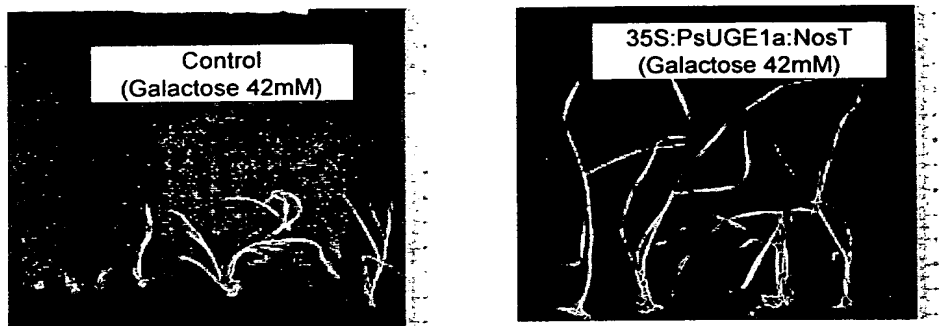


Fig.12

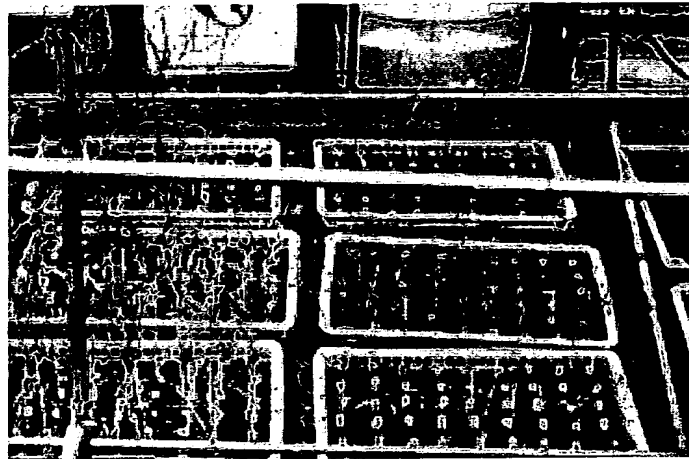


Fig.13

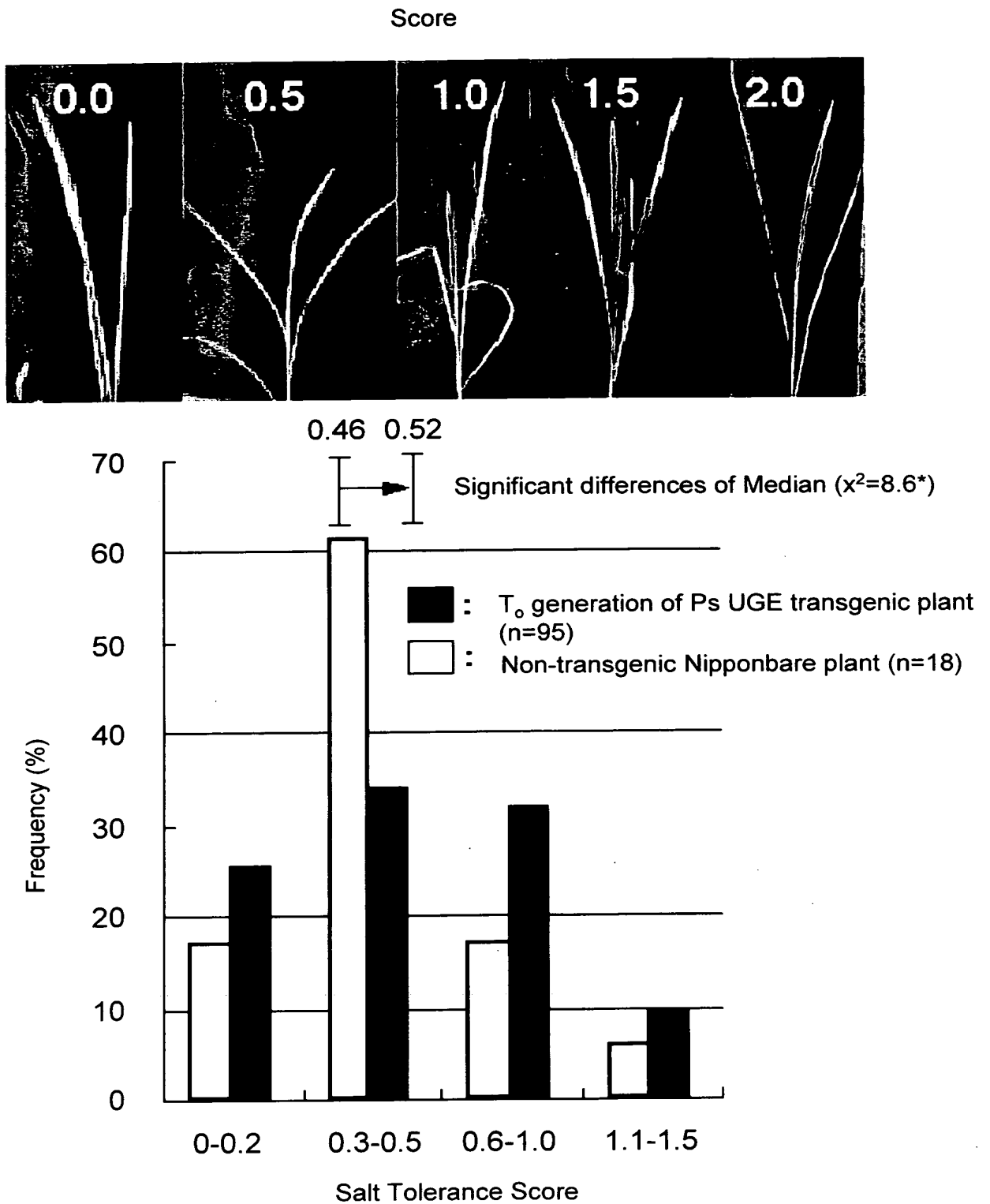
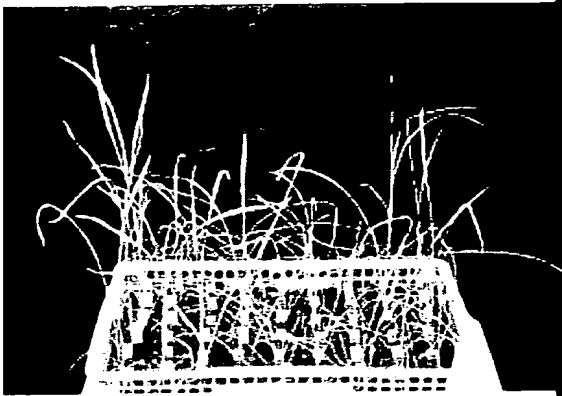
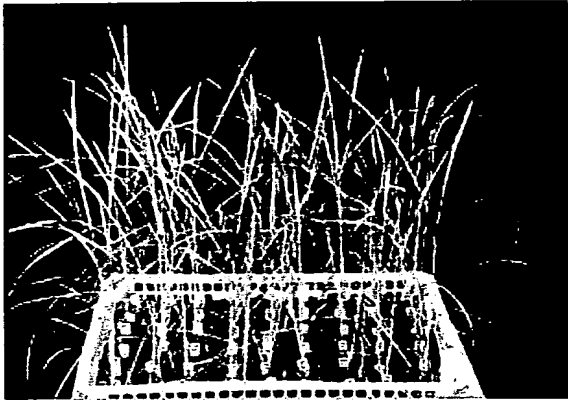


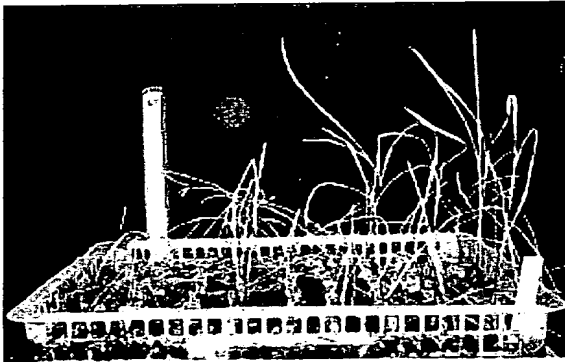
Fig.14



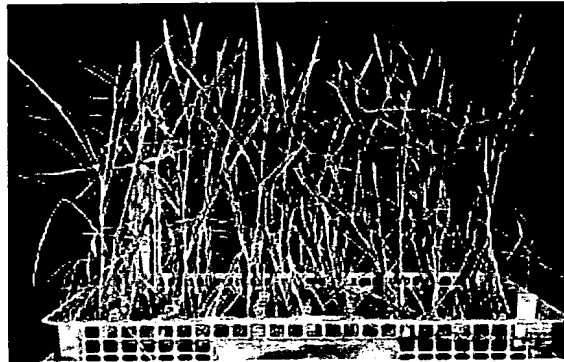
Non-transgenic rice (2 weeks later)



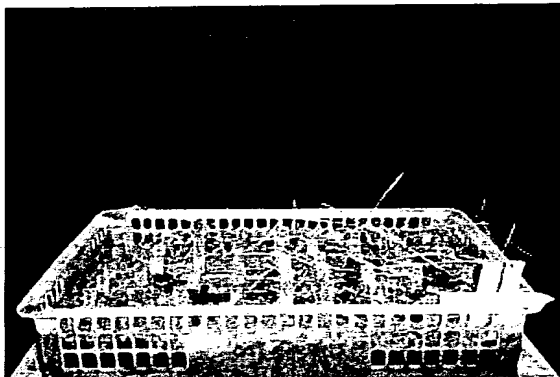
PseUGE transgenic rice (2 weeks later)



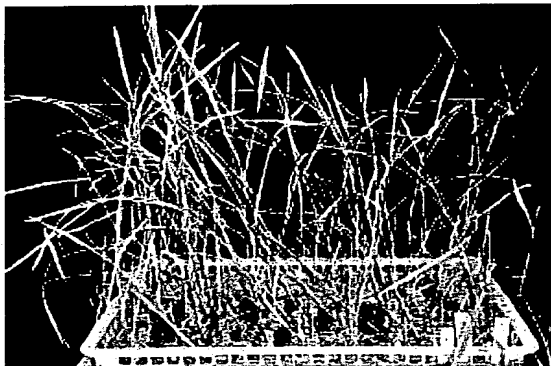
Non-transgenic rice (4 weeks later)



PseUGE transgenic rice (4 weeks later)



Non-transgenic rice (8 weeks later)



PseUGE transgenic rice (8 weeks later)

Fig.15



Fig.16

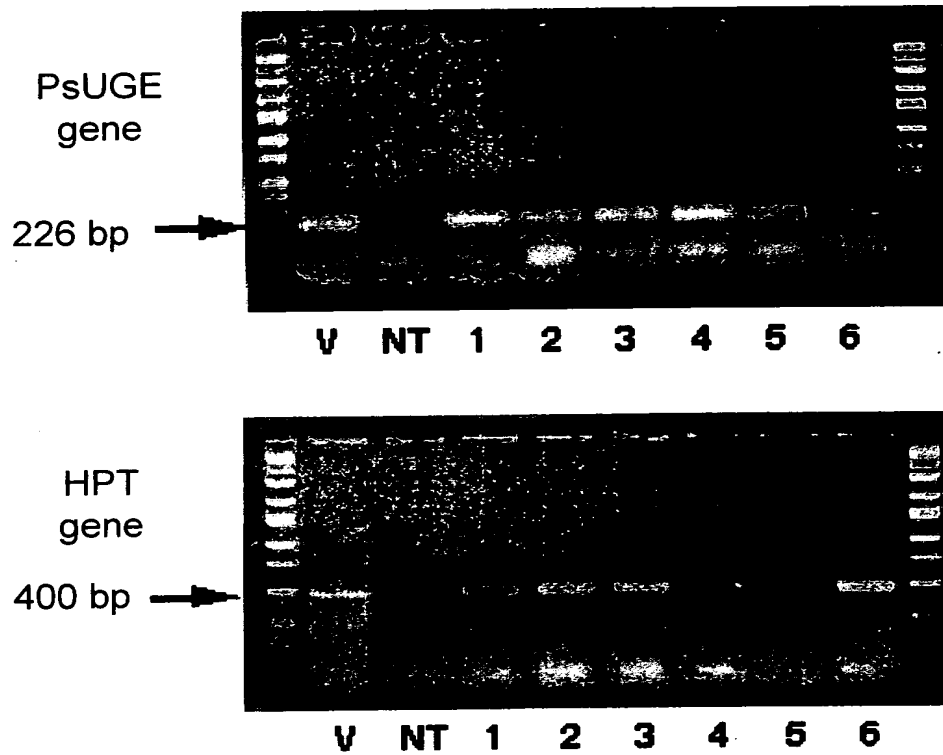


Fig.17

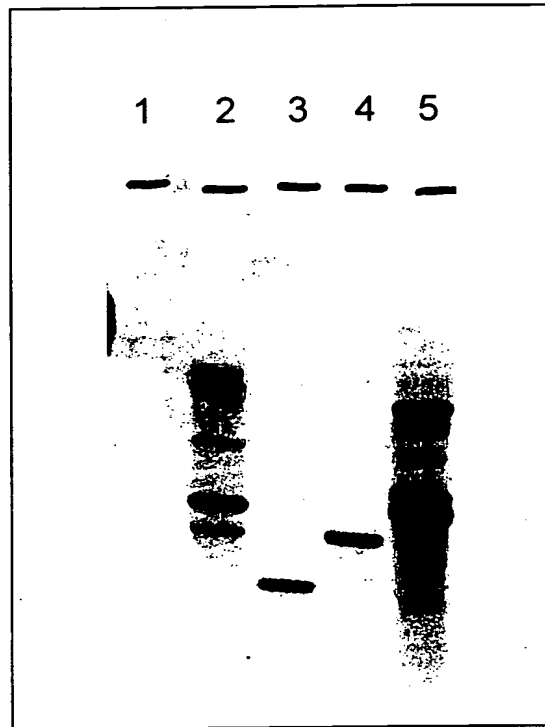


Fig.18

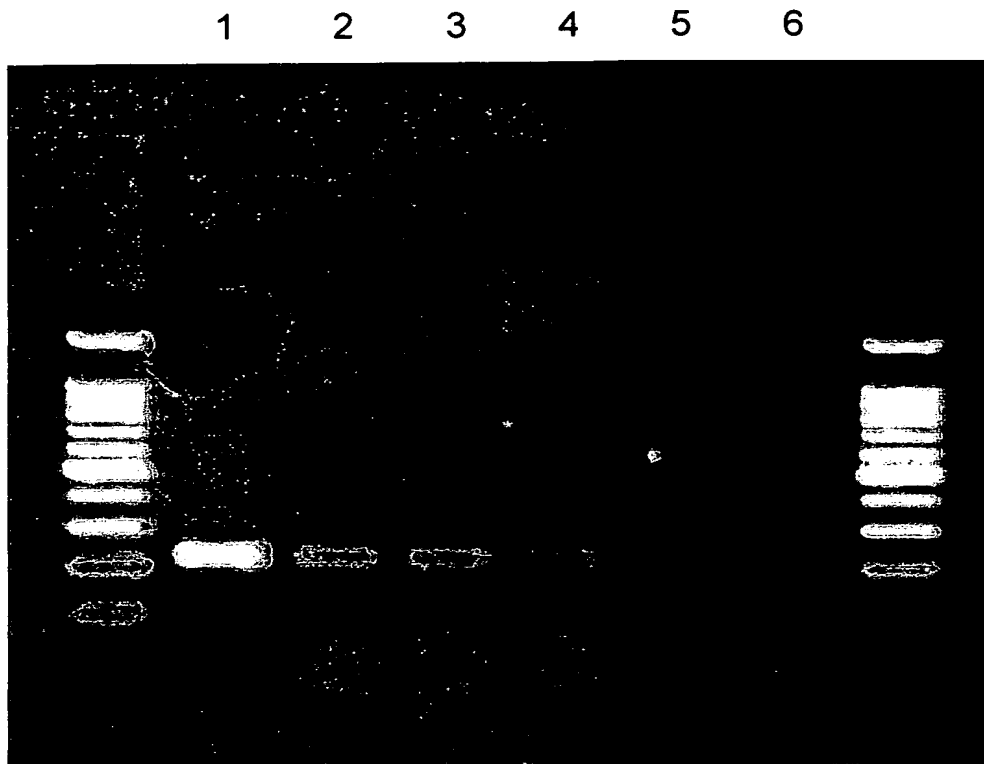


Fig.19

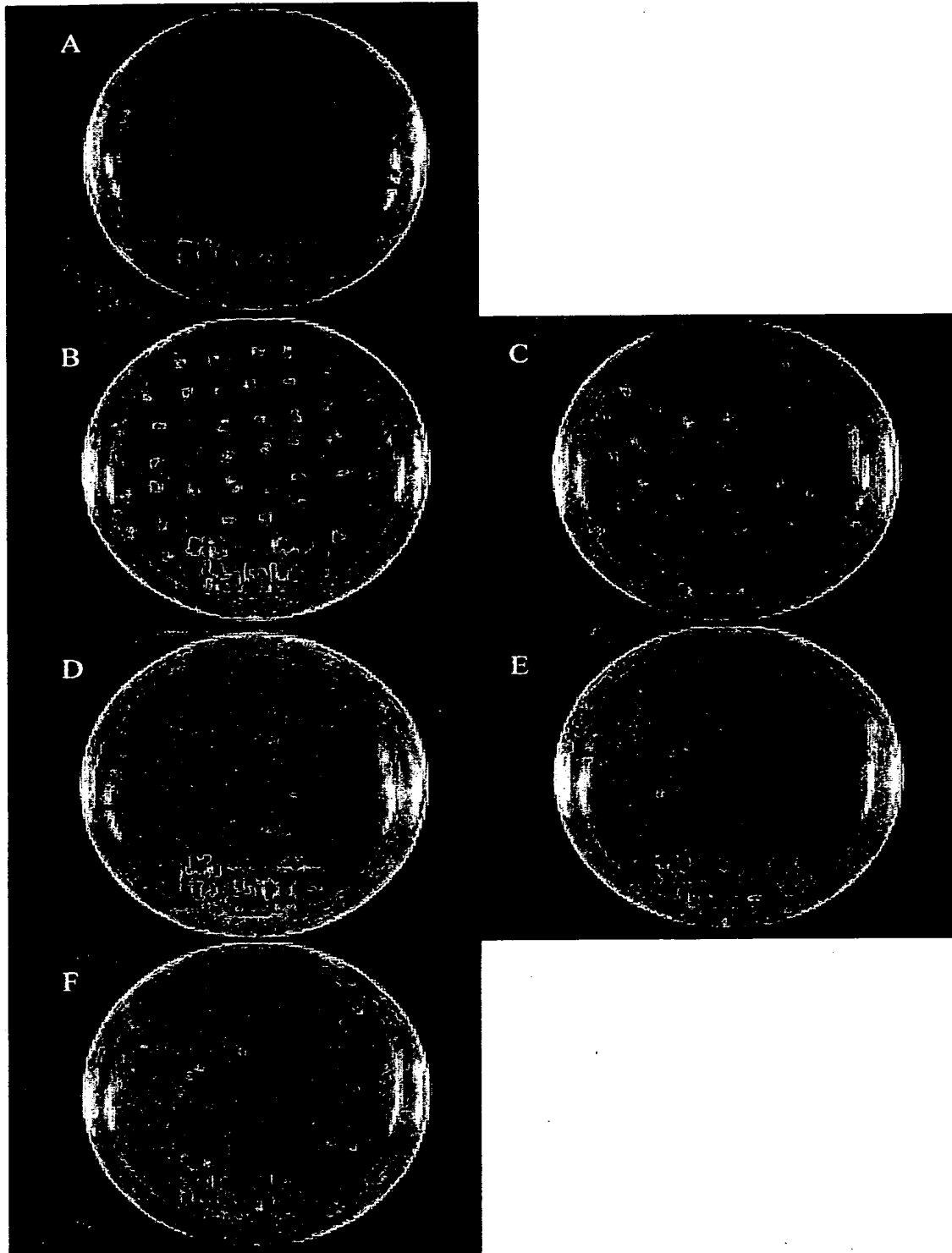


Fig.20

